

All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 12 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of southwest Monsoon continues to pass through Lat. 26.7°N/Long. 87.9°E, Siliguri, Malda, Shantiniketan, Midnapore, Baripada, Bhawanipatna, Kanker, Chindwada, Indore, Gandhinagar, Rajkot and Porbandar. Conditions are becoming favourable for further withdrawal of southwest monsoon from most parts of Madhya Pradesh, Chhattisgarh, West Bengal; some more parts of Gujarat, Maharashtra, Odisha and some parts of northeast India during next 24 hours.
- The cyclonic circulation over north Andaman Sea & neighbourhood extending upto 3.1 km above mean sea level persists. As per the latest analysis, under the influence of this cyclonic circulation, a Low Pressure Area is likely to form over Eastcentral Bay of Bengal & adjoining north Andaman sea around 13th October. It is likely to move west-northwestwards and reach south Odisha-north Andhra Pradesh coasts as a Well Marked Low Pressure area around 15th October. Under its influence; Light to moderate rainfall at most places with isolated thunderstorm (wind speed 40-50 kmph gusting to 60 kmph) and heavy to very heavy falls very likely over Andaman & Nicobar Islands during next 4 days.
- A cyclonic circulation lies over Eastcentral Arabian Sea and extends upto mid-tropospheric levels tilting southwestwards with height. It is very likely to persist during next 2 days and an east-west trough at lower levels runs from cyclonic circulation over north Andaman Sea to cyclonic circulation over eastcentral Arabian Sea. Under its influence:
 - i) Isolated to scattered rainfall with thunderstorm & lightening very likely over Madhya Maharashtra and Konkan & Goa during next 2 days.
 - ii) Fairly widespread to widespread light to moderate rainfall very likely over southern peninsular India during next 5 days. Isolated very heavy rainfall very likely over Kerala & Mahe and Tamil Nadu and isolated heavy rainfall very likely over Coastal & South Interior Karnataka during 12th-16th October, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (0830 hrs IST to 1730 hrs IST of yesterday): at most places over Kerala & Mahe; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, South Interior Karnataka, Lakshadweep, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands; at a few places over Coastal & North Interior Karnataka and at isolated places over Gujarat State, Konkan & Goa, Madhya Maharashtra, West Madhya Pradesh, Odisha and Coastal Andhra Pradesh & Yanam.
- Heavy Rainfall recorded (0830 hrs IST to 1730 hrs IST of yesterday): Heavy rainfall at isolated places over Kerala & Mahe.
- Thunderstorm observed (0830 hrs IST of yesterday to 0530 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, coastal & south interior Karnataka, Saurashtra & Kutch, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Odisha and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 11-10-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Arunachal Pradesh and Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Uttarakhand and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over West Uttar Pradesh, Bihar and East Madhya Pradesh; at a few places over Haryana Chandigarh & Delhi, East Uttar Pradesh, Odisha, Vidarbha and Telangana; at isolated places over Punjab, West Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably below normal (-3.1°C to -5.0°C) at a few places over Kerala & Mahe; below normal (-1.6°C or less) at many places over Lakshadweep; at a few places over Gujarat state; at isolated places over Andaman & Nicobar Islands and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.1°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 11-10-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at a few places over West Madhya Pradesh, East Rajasthan and West Uttar Pradesh

and at isolated places over East Uttar Pradesh, Assam & Meghalaya and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Gujarat Region, Bihar and Jharkhand; at many places over West Rajasthan, Rayalseema, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over South interior Karnataka, Coastal Andhra Pradesh, Odisha and at isolated places over East Madhya Pradesh, Vidarbha and Madhya Maharashtra and below normal (-1.6 to -3.0) at many places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 15.4°C was reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 12 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe; heavy rainfall at isolated places over Andaman & Nicobar Islands, Coastal & South Interior Karnataka, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Karnataka, Kerala & Mahe, Tripura, North Coastal Andhra Pradesh, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) very likely over Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.
- 13 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & Squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) very likely over Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.
- 14 October (Day 3): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning & Squall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph)

likely over Southeast Arabian Sea along & off Kerala-Karnataka coasts, Lakshadweep & Comorin area and over South Bay of Bengal, Andaman Sea. Fishermen are advised not to venture into these areas.

- 15 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) likely over Southeast Arabian Sea along & off Kerala-Karnataka coasts, Lakshadweep & Comorin area and over South Bay of Bengal, Andaman Sea. Fishermen are advised not to venture into these areas.
- 16 October (Day 5): Heavy rainfall likely at isolated places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe, Coastal & South Interior Karnataka and Lakshadweep. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Gangetic West Bengal, Odisha, Chhattisgarh, Jharkhand, Kerala & Mahe Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Lakshadweep. Strong wind (wind speed reaching 40-50 kmph) likely over Southeast Arabian Sea along & off Kerala-Karnataka coasts, Lakshadweep & Comorin area and over South Bay of Bengal, Andaman Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 12 Oct to 20 Oct 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

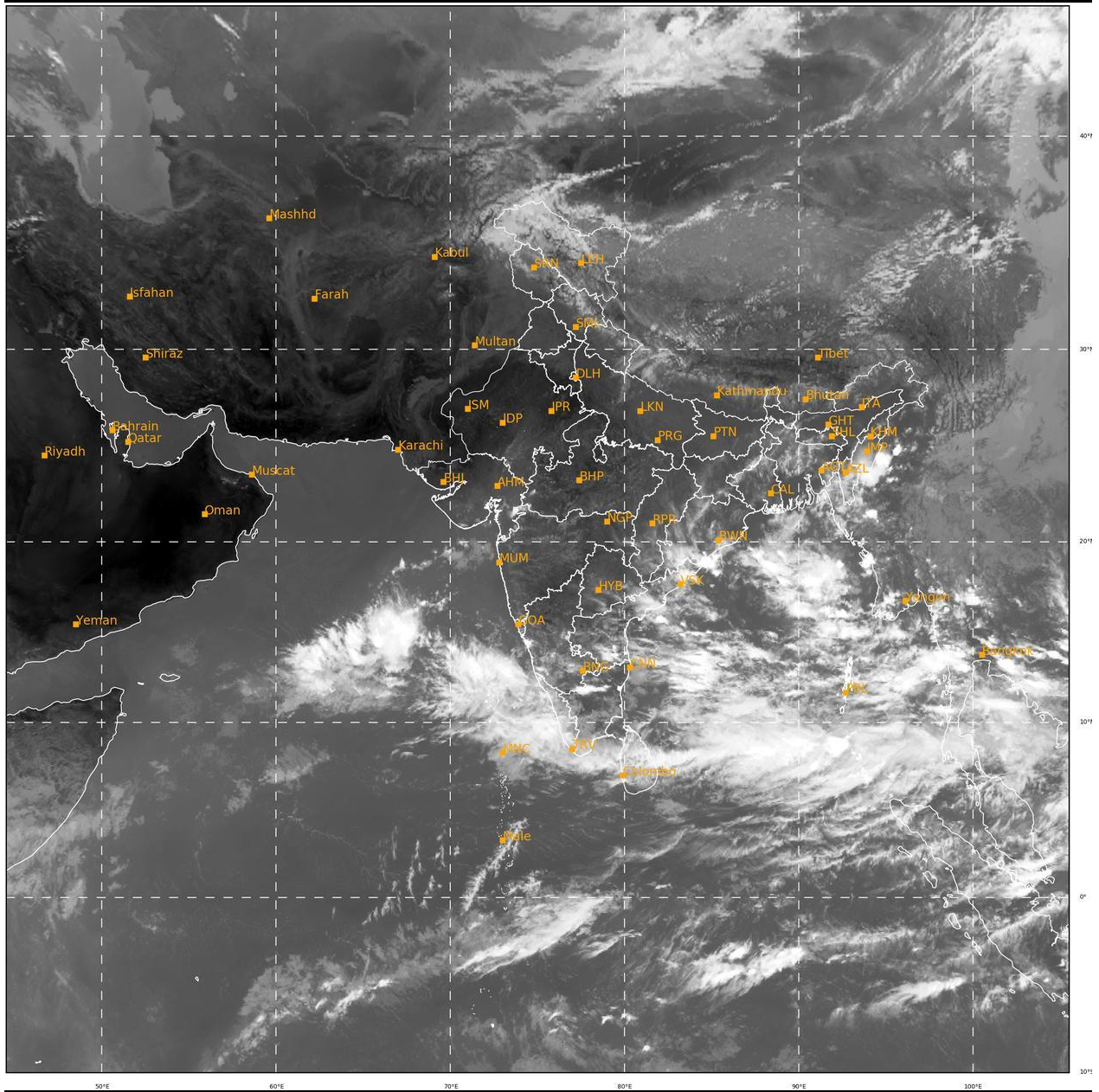
The actual maximum temperature was 2.0 °C lower and the actual minimum temperature was 2.3 °C higher as compare to their normals. Total BSS was 46.5 hrs. with an average of 6.6 hrs. The daily average evaporation and wind speed was 3.3 mm and 2.8 km/hr respectively. The daily average RH during morning and afternoon was 92.0 % and 63.3 % respectively.

Contingency measure:

- Pearl millet : Maturity/Harvesting : Protect the crop from bird damage. Harvest the mature crop and keep in the field for sun dry.
- Tobacco : Weeding in tobacco nursery is advised. Prepare land for tobacco transplanting. Carry out transplanting of seedlings of tobacco crop at recommended spacing (90 cm x 75 cm or 105 cm x 90 cm). Gap filling, inter-culturing and hand weeding in established transplanted crop is advised.
- Paddy : At initial stage of incidence of paddy stem borer, install pheromone trap. In heavy incidence of stem borer, apply carbosulfan 5 G (4 kg) or cartap hydrochloride 4 G (5 kg) or carbofuran 3 G (6 kg) per vigha (20 guntha) after removal of water from field. For control of Brown Leaf hopper in paddy spray Monocrotophose 36% (15 ml) + Dichlorvos (5 ml) or Fenobucarb 15 ml/10 litre water.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Castor : Vegetative Growth : Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed. If disease severity is higher, do second spray after 15 days.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Mango : Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

12-10-2021/(0800 to 0826) GMT
12-10-2021/(1330 to 1356) IST



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940

IMD,DELHI

Figure: 1. Latest available satellite picture as on 12 Oct 2021 at 1356 Hrs (IST). (Source: IMD).

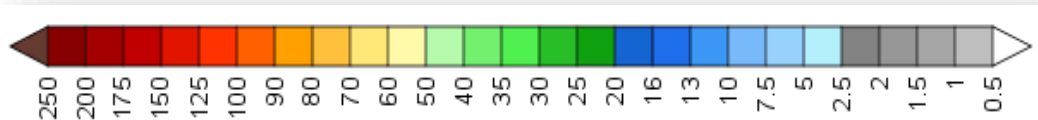
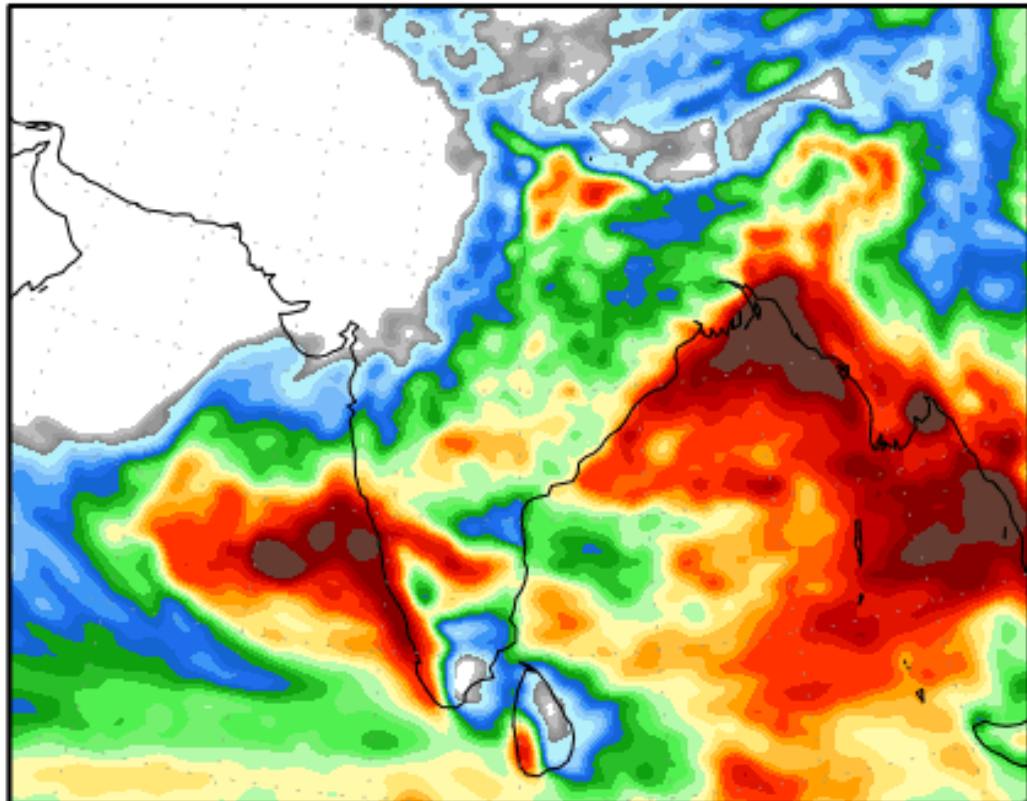


Figure:2. Precipitation forecast for 12 Oct to 20 Oct 2021 (Source: NOAA NCEP).

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